

# SEQUENCE LISTING

<110> Moyer, James W.  
Parks, Elizabeth

<120> IDENTIFICATION OF POINSETTIA CULTIVARS

<130> 5051.445

<150> US 60/220,854

<151> 2000-07-26

<160> 54

<170> PatentIn version 3.1

<210> 1

<211> 372

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (24)..(24)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (195)..(195)

<223> "n" represents any nucleotide.

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aaacttagac tttataccat aatnttttag ttgctgcttg atctatagca gttgagccac

60

ataacttctg gcagccatgt actcagcttc agctgtactt agagccatag aagtttattt	120
cttggtgtac catgtgtcta gacaattacc aaggaaatga catcctctag tgggtgtttt	180
cctttctaac ttgtntcttc cataattagc atttgtgtat gccctcagag tgaaatttcc	240
atttcttgga taccataaac ctgcatcaat agttcctagc aaataccata acaacagcta	300
agtgagattc tctgggggta gcttgatata taccataata acatacaaca tattgaattt	360
caggcctact ag	372

<210> 2

<211> 198

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (35)..(35)

<223> "n" represents any nucleotide.

<220>

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<222> (45)..(45)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (48)..(48)

<223> "n" represents any nucleotide.

<220>

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<222> (154)..(154)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (160)..(160)

<223> "n" represents any nucleotide.

<400> 2

gtagaaaaag caaatctcag tgcagggtgt ggatntggtg ccagntanta ttgcaaagt 60

tagagctttg ttgcaggatt tgactgagag gaattgtgtc atggagagaa gttcgagtgc 120

gagcccgatt gtgttgtagg agaagaaatt gganagaagn cgttgggggc aagtatggag 180

ttgagaatcc cacatcta 198

<210> 3

<211> 182

<212> DNA

<213> Euphorbia pulcherrima

<400> 3

agtagaaaaa gcaaatttca gtgcagggtg tactattgca aatgtagag ctttggtgca 60

ggatttgaca gagaggaatt gtatcatgga gagaagttcg agtgcgagcc cgattgtgtt 120

gtaggagaag aaattggaag aagacgttg gggcaagtgt ggagttgaga atcccacatg 180

ta 182

<210> 4

<211> 161

<212> DNA

<213> Euphorbia pulcherrima

<400> 4

tgcttccaag gtgtttctcc ttttgataga gaaattttac caactatgga aaactgacat 60

gatttcagcc tctcttcata aagattttga ggaatctgaa ttgctttgta tctcccactt 120

gcgtcaatga tttgtgagtt cagggttgga gcagatatct a 161

<210> 5

<211> 103

<212> DNA

<213> Euphorbia pulcherrima

Feature e4000

<400> 5  
cgacgatggc aatgatgaca attcttgcct ggaaccagaa atgataattg atactcccta 60  
tatagggaga atgttgaaaa ttagattttg aagttgttat tta 103

<210> 6  
<211> 371  
<212> DNA  
<213> Euphorbia pulcherrima

<220>  
<221> misc\_feature  
<222> (81)..(81)  
<223> "n" represents any nucleotide.

<400> 6  
ttccatggta cctttgttca gtaaaaaaat tacacaatta gctagttcga agaatacacg 60  
tgcaaactaa ttttttaggtc ntgggtgcaa attattttgc aaaaataatt accaagctat 120  
ctcttccaag tatatatttc tctagcatct cccatgcata agaactgttg gagtgtatat 180  
gtatgagaaa gaaatgtata ataccaacct cttccatttg ctttgttcta ctgctttcca 240  
agtgtcgggt ttaggtgtat tacaaggccc tatagtagcc tgcagtcatt catggaacta 300  
acaaactcag tatctaagcc cggggtgaaa agatactcac aatctcacat ttccgatcaa 360  
ctccccatat c 371

<210> 7  
<211> 247  
<212> DNA  
<213> Euphorbia pulcherrima

<220>  
<221> misc\_feature  
<222> (22)..(22)  
<223> "n" represents any nucleotide.

<220>

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<221> misc\_feature

<223> "n" represents any nucleotide.

<210> 8

<212> DNA

<213> Euphorbia pulcherrima

<210> 9

<211> 176

<212> DNA

<213> Euphorbia pulcherrima

<400> 9  
tgcatccat ggttcaaaag ccgagtttct tcgcctcatc gagtttttat tcgcaaagtg 60  
gatggtttag acagggtttt gaccagcagc ctggagttgg gagattgttg gcctcatcag 120

aaattagttt tcatggagtt gggagatttg aaggtaattc aaggaagttt tctgca 176

<210> 10

<211> 73

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (54)..(54)

<223> "n" represents any nucleotide.

<400> 10  
ccggataaaa gcactacaat caggtagatg actcgggtcg gatacgtagt gcantactga 60  
gtcagactaa cga 73

<210> 11

<211> 75

<212> DNA

<213> Euphorbia pulcherrima

<400> 11  
gtttatcttc aagtctaaca agaccagtt ttccagattc ctttcctcaa tttctcgttc 60  
agttataaaa gctaa 75

<210> 12

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (52)..(52)

<223> "n" represents any nucleotide.

<400> 12  
gaatgcctat tacatcgga aacaaaaaaa caaagataaa tgctagagac antataatca 60  
tccc 64

<210> 13

<211> 59

<212> DNA

<213> Euphorbia pulcherrima

<400> 13  
gtctttctag ttttactgat ttctgttgta cttctattag atatatattg tatatctga 59

<210> 14

<211> 49

<212> DNA

<213> Euphorbia pulcherrima

<400> 14  
ttgaaggcag gaaaatatat cctattctga aaggatttac aatctgcgg 49

<210> 15

<211> 216

<212> DNA

<213> Euphorbia pulcherrima

<400> 15  
acttctctcc ccacacaatg tgtagtgcag ctagtgccga tgacagtgag aagaccagaa 60  
tcacatagag agcgatcgta tgaaaaggta ttgaattagg gatttgatga aagggtgaaga 120  
tagaaagggga gttggtgtta gcgagtgttt tctcctgccc tcacaataat acttttatca 180  
atttttcagt aacaatttgt ccatgtactt ttggac 216

<210> 16

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 16

tgtgctcttg ttccttggat caaataagga aacatggcct taggtaagtg tagtcatatc 60  
 tttttggctc atgaacccta agtcccctat agtttgaaca aggttgtgta ggattggtat 120

<210> 17

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 17  
 agaaccta atcctaagtagaa tcttataaaa gaaatgaaaa ctttgagaga ttttttagt 60  
 atgaaaatag aaaataaatc ataaagtaaa caagcacaaa taccagctgg atttttctaa 120

<210> 18

<211> 118

<212> DNA

<213> Euphorbia pulcherrima

<400> 18  
 gaatgtgctc ttggtccttg ggatctaaat aaggaaacat ggccttggtg tagtaataat 60  
 actttttgct cataaccctg agtccgctat ggctgaacaa ggttgtgcag gatggtat 118

<210> 19

<211> 117

<212> DNA

<213> Euphorbia pulcherrima

<400> 19  
 agaacctaaa tctaggtagc cttcttataa aagaaaatga aaactttgag agatattttt 60  
 agtatgaaaa tagaaaataa aatcataagt aacagcacaa ttaccagctg gactctc 117

<210> 20

<211> 109

<212> DNA

<213> Euphorbia pulcherrima

<400> 20  
 gaatgtgctc ttggttcctt agggatctaa ataaggaaac atggcttggt atagtaataa 60



tacttttggc tcatgaactc tagtcctatg ctacaggtgt cagatgata 109

<210> 21

<211> 114

<212> DNA

<213> Euphorbia pulcherrima

<400> 21  
gatgtgctct tggtcctgga tctaataaaa catgccttgt attagtaaaa ataccttttt 60

ggctatgaac cctgagtccc ctatggcttg aaaaagggtg tgcaggattg gtat 114

<210> 22

<211> 119

<212> DNA

<213> Euphorbia pulcherrima

<400> 22  
tttctctctg attacattac tatgtaaaga cctaaatgaa tgagttttct tcgcaaggac 60

caaatcgaga tattttaact aattttttct cttgaaatat tttatctaga tgaaatttt 119

<210> 23

<211> 116

<212> DNA

<213> Euphorbia pulcherrima

<400> 23  
gctttcttac attcttgggg acaagaatgc tttgaagggg agggatttgt caggaggaag 60

taatataatc tgattgttat ttagttttatt tgctttgggt aaataagttg actatg 116

<210> 24

<211> 336

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (333)..(333)

<223> "n" represents any nucleotide.

<400> 24  
ctccaaggct tcattgatgc agattatggt agagatactc ttgagagaaa gagtacatca 60  
gaggttgtca ctcttaggga gattgcttag tatcttgga cagcaagaag caaacttcag 120  
ttgctttatc tactatagaa gtagaatata tggcagctag aagttgtgta gctcaacttc 180  
tttgatcaa gcaacaacta gaagattatg gagtctaate cgggtgtgtg gatgtaattg 240  
gtgattacaa aagtgccatt gatgtgtcaa acaatccagt attccatagg aggataaaac 300  
atgtcaacat aaggcatcgt gaagagaaga aanttg 336

<210> 25

<211> 232

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (6)..(6)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (26)..(26)

<223> "n" represents any nucleotide.

<400> 25  
cagganatga actttgattt caccancata gattttgaat ctgagtcctc aggaagcttt 60  
ttcagttctt gagcacatgt tctgaaaaaa tatcaaatct ctacattggt ttcaagggtca 120  
acaaatgacc ggtaaggctc ggggttgtct agaccgggca catcaatttg gggacaaatt 180  
tgaatccatt ttatcctact tttttgtatt ggcagtaagg attaggattc tc 232

<210> 26

<211> 167

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (73)..(73)

<223> "n" represents any nucleotide.

<400> 26

ctctcctata ttttaggggt tagctttgta tcataagctc ttctgctctc taccctctta 60

aaccaccca tgntatata ggtattcatc actcgaatat ttatgtaagt catccatctc 120

attcaggggt tgattcgggc tgatcatctt ccggtttctc tagctaa 167

<210> 27

<211> 102

<212> DNA

<213> Euphorbia pulcherrima

<400> 27

tttgaggag tactgtccat gtaaatttga gacttcgcac tatcattgca agcaatagca 60

atagaagaaa catcattttg cagcttacta atacaccac tc 102

<210> 28

<211> 308

<212> DNA

<213> Euphorbia pulcherrima

<400> 28

gcctagaaag gttttctagt caacatactc acgtagctca cttttaccct aacttttgcc 60

tagaacgtcc tttttgaatt ttcagtctag cgggctatct tgcaccctaa cttttgcctg 120

aatgggttgt agaataccaa atagcgggat atgccctaag tttgcctaag cagtagagga 180

ccactcatcg ggtgatttat tttgattatt ttttgtgtgc cgcttttctg gatttgattc 240

ttttagatta gatatgataa tgcttcaatc gatcctgatt gatagggttt gtgaattggg 300

acgcagcc 308

<210> 29

<211> 137

<212> DNA

<213> Euphorbia pulcherrima

<400> 29

aagaccaagt caggagcata cctaagaaga aggaatagct gacctagccg atcctctggt 60

acctcaacta tggatggacc cccgtgtacc tctcagtcct cctcctcgtc atcatatcat 120

catactcggt gttgctc 137

<210> 30

<211> 135

<212> DNA

<213> Euphorbia pulcherrima

<400> 30

ttatcataat caatgtcaat aaaaaaaaaa aggcaataaa taaaagataa ataattctga 60

tagactaaaa agagcaaggc tgatgcaaaa gtcagaataa gtctgctgga ttgaaatcga 120

aaggatatcta ggcaa 135

<210> 31

<211> 139

<212> DNA

<213> Euphorbia pulcherrima

<220>

<221> misc\_feature

<222> (128)..(128)

<223> "n" represents any nucleotide.

<400> 31

ggccctttct cagccatgat atctaaatat acgagtcttg tgtgtacgcc attgcatctc 60

tagcccttct ccagggggcg ttctcatctt gtccatgcc aataacaatt tcatatattc 120

tctctccnag taagcaacc 139

<210> 32

<211> 281  
 <212> DNA  
 <213> Euphorbia pulcherrima

<400> 32  
 aacctcatca atcaggatca gatgaagcat tatcatatct aatcgaaaag aatcaaattct 60  
 agaaaaagcgg cacataaaaag tatataaaaa aatcacccga cgagtagtct tctactgctc 120  
 aggcaaaaat taggggtgtat cctgttggtt ggtaattctgt aaaccattca ggaaaatggt 180  
 aggggtgcaag aataacccgc tagactgaaa atctgaaaag gatgggtctag gcaaaattta 240  
 gggtaaaagt gagctacaat agtgtgttgg ctgaaaact t 281

<210> 33  
 <211> 211  
 <212> DNA  
 <213> Euphorbia pulcherrima

<400> 33  
 ggattactga taatgttgac aatggcttga gggcagtatc ttgcaactcc ctcgcaaagg 60  
 gttttcacta ttccggcatt tatgttgaat aaatcgtccc tagtcattcc tggcttccta 120  
 ggaaccccag caggaattat cacaagatcc attcctgtaa gagcatcgtc tagttgctgc 180  
 tggcccaaga aaccacgcac ctgaaaatca t 211

<210> 34  
 <211> 320  
 <212> DNA  
 <213> Euphorbia pulcherrima

<220>  
 <221> misc\_feature  
 <222> (127)..(127)  
 <223> "n" represents any nucleotide.

<220>  
 <221> misc\_feature  
 <222> (136)..(136)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (142)..(142)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (148)..(148)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (192)..(192)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (213)..(213)

<223> "n" represents any nucleotide.

<400> 34

ttagctcgat ctccatgata acaaaactag ttatcacacc caccatttac attgttggtta 60

tgcaacaaag tcaactgtac tagagattct cgtcccgaag tgccctcaag atgggatcgt 120

tttcttnatc tatgtngtag tngtcgtngt cgtcatcatc caggatcatcc agtattgatt 180

ggttgatcct tntgcgagac tttcttctat gcnttcttgg gctccaaacg aggttcagct 240

tgctgtactc ccatatcacc cactttgaac ctgcagagta gcataacgaa caagaaaatg 300

aatgatagta gaataaattt 320

<210> 35

<211> 272

<212> DNA

<213> Euphorbia pulcherrima

<400> 35  
tatggtatatt cttttctggg tgtaattgat ttgcaacttg agtcaaacag gttctatcaa 60  
ctgatttttc tagttttcgg cgcttactgc aaccctggaa aggatgttca ctgttttttc 120  
cttcgttttc caggtcagca atacgacgag taatttcctc ggtatcatat atggattcca 180  
gcttgtaatc ttttatgcat tgaaatacgg ctttacgagc agctagttct ctctccctgg 240  
ccttctcctg cagatgaaat caggagttat at 272

<210> 36

<211> 195

<212> DNA

<213> Euphorbia pulcherrima

<400> 36  
cagattattt gactataatt agtttggctt ctatggttgc tgcactaaat gatcatcgaa 60  
acagccaatc ggttcattggg tttgtcatga gaaaaggctg gttcatggaa tatattgtca 120  
ttgggaatgc aactgtggac atgtatgcta aaattggagc cacagatacg gcccgtcag 180  
tatttgaaag cctac 195

<210> 37

<211> 171

<212> DNA

<213> Euphorbia pulcherrima

<400> 37  
tttcaaaagt tgaaaagaat atgtcataag cttacacta gtaaattggaa ctatagtccg 60  
tgccccctac atcaaaagat caatgataaa gaagaacaaa acactccaaa gagcaattct 120  
tctcaaaagg tgctgagctg gaatcccatt ctaatcgtgg catccctccc c 171

<210> 38

<211> 120

<212> DNA

<213> Euphorbia pulcherrima

<400> 38

aaatgtagca aagaacatta tcaacaaatg ccccaaaaaa caagtgaaaa tataatcacc 60  
actgaagcaa aaaaagtaag taaaaacaga agaaaagaca actaaatgta gattattaca 120

<210> 39

<211> 88

<212> DNA

<213> Euphorbia pulcherrima

<400> 39  
aacttttttc tttgtataat tatctcatat tttttgtgaa tattcttggt tgaatagaac 60  
acactttata tatgaaaccc actttatc 88

<210> 40

<211> 67

<212> DNA

<213> Euphorbia pulcherrima

<400> 40  
atccttttca acaaggacat cgatgaaaag tgatttataa atgtggatat gtaaacttag 60  
cttagtg 67

<210> 41

<211> 223

<212> DNA

<213> Euphorbia pulcherrima

<400> 41  
ccaggagtaa aatagccatt atgaaagtac cattgaacca tattgctaac atccttgccg 60  
accagggtccc aaaagtgttg ataaaaaata ccagtaaagc cgtcaggacc cagcgacta 120  
tcacccttca tcgagaagac tctattttcga atttcatcaa aagaaggctt cctaataaac 180  
tcatcattgt cgctgcccgt caccgatta ggaactgtct gcc 223

<210> 42

<211> 165

<212> DNA

<213> Euphorbia pulcherrima



<400> 42  
ctaactggat gcaagaaatg agcaggcacc gatgaactag caaataaagg tggcagcatc 60  
agaaccacca tcgtaaccac cgttagaatc gccgcccgat gaaagcccct gcattctttt 120  
caaatacaat ctatacttct tgcacatga accctacgtt ttctc 165

<210> 43  
<211> 106  
<212> DNA  
<213> Euphorbia pulcherrima

<400> 43  
actaatccca tattagatgg gaattggatc gcttgacatg agagatttca aatgaacttt 60  
atttccatcc ctagagccga gttcataaaa tctctcctaa acccat 106

<210> 44  
<211> 67  
<212> DNA  
<213> Euphorbia pulcherrima

<220>  
<221> misc\_feature  
<222> (51)..(51)  
<223> "n" represents any nucleotide.

<400> 44  
tgcaccattt gcattttcac acaaccattt ataataatat tcatcccata ngtttgaggg 60  
ttttcgg 67

<210> 45  
<211> 50  
<212> DNA  
<213> Euphorbia pulcherrima

<220>  
<221> misc\_feature

<222> (23)..(23)

<223> "n" represents any nucleotide.

<220>

<221> misc\_feature

<222> (47)..(47)

<223> "n" represents any nucleotide.

<400> 45

gttcgtatat gtaatatatc ctngtaaagt ttaattacag aaacatngca

50

<210> 46

<211> 64

<212> DNA

<213> Euphorbia pulcherrima

<400> 46

cgtaccagcg gagacgatgg cctgaaattt gagcaccttc cgttgcatca gagtttctca

60

gtta

64

<210> 47

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Primer.

<400> 47

gactgcgtac caattcaag

19

<210> 48

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 48

gactgcgtac caattcaca

19

<210> 49

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 49

gactgcgtac caattcagc

19

<210> 50

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 50

gatgagtcct gagtaacac

19

<210> 51

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 51

gatgagtcct gagtaacta

19

<210> 52

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 52

gatgagtcct gagtaactc

19

<210> 53

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 53

gatgagtcct gagtaactg

19

<210> 54

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide Primer.

<400> 54

gatgagtcct gagtaactt

19